

C O R R I D O R

C O N S T R U C T I O N 2 0 0 0 - 2 0 0 1

A MESSAGE FROM THE DIRECTOR

This year we will be carrying out nine major maintenance and construction projects in the H-1 Freeway Corridor from Punchbowl Street to West Hind Drive. These projects range from resurfacing, to the reinforcement of freeway support columns to bring them up to current earthquake standards, to replacing aging water lines, and building an additional lane for the Punahou off-ramp.

The work will continue through 2002 and will help make this thoroughfare safer for the 182,000 commuters who utilize it daily. It will also help us comply with federal highway safety standards. Approximately \$58 million will be spent on these improvements.

You will find a complete description of the work on pages 2 and 3 of this newsletter.

We realize that there is no good time to do road work, much less work on the H-1 Freeway in the heavily traveled downtown area. Although we prefer to do the work at night when the roads are less busy, we face the additional challenge of working in a corridor with homes fronting the freeway on both sides.

Construction work is noisy, and if we work at night, we know we will not be able to stay within the noise restrictions set by the Department of Health. However, if we close lanes on the freeway to work during the day, traffic delays of up to one and one half hours are expected and gridlock on nearby streets in the area will occur as motorists look for alternate routes.

We have prepared a cost comparison of doing the road work during the day versus at night based on anticipated delays to motorists and user costs. The results show that performing the work during the standard daytime lane closure hours of 9 a.m.-3 p.m. through the H-1 Corridor, from Punchbowl Street to Kapiolani Interchange, would cost approximately \$432,900 per day in delays to motorists.

By working nine hours every night, the anticipated delay time is 15 minutes, and the total anticipated user cost per day in delays is \$24,975. We are working with legislators, the city, neighborhood board representatives, the transportation industry, contractors and others to determine the best way to accomplish the work in the shortest amount of time, and with the least inconvenience to both motorists and residents. But we know that we won't be able to please everyone, and traffic congestion and noise will occur.

It has been 15 years since we did any major work in this corridor and heavy maintenance and upgrades are sorely needed. So what are we going to do to mitigate the noise and congestion? First, we're asking the Legislature to consider a bill to exempt us from noise restrictions on the freeway during this construction period. If this bill passes, we will close the H-1 Freeway down entirely in both directions from 8 p.m. to 5 a.m. and work our way incrementally down the freeway doing all work in a particular stretch, and then moving the work area to the next section. By doing this, we estimate that we can save six months in construction time, and only inconvenience residents for a week or two in each area, as compared to 18 months if we have to work during the day.

Second, we're initiating a comprehensive communications plan to notify the public ahead of time about the scheduling of road work. This monthly newsletter is one of several ways the DOT will inform commuters about the progress of these projects. We are in the process of hiring an information specialist whose job it will be to operate an H-1 Hotline, answer questions and provide regular information about the construction schedule.

In the next few weeks, details of the H-1 Corridor Construction will be published in a special tabloid in the daily papers. The DOT web site www.hawaii.gov/dot will also assist with the dissemination of important information about the construction project.

Ultimately, our goal is to provide enough advance information to minimize confusion during construction. We hope the information in this newsletter will begin the process of communication between the DOT and commuters. If you have any questions, please don't hesitate to call our Public Affairs Office at 587-2160.

Mahalo,



Kazu Hayashida
Director of Transportation





H-1 CORRIDOR RESURFACING

Estimated Start: The contractor is currently working on a construction schedule; freeway work expected to begin in June.

Estimated Completion: Fall 2001

The H-1 corridor will be resurfaced from the Punchbowl Street off-ramp to Kapiolani Interchange, including all on- and off-ramps, frontage roads and cross streets.

Eastbound Ramps to be resurfaced:

- ◆ Ward Avenue on-ramp
- ◆ Piikoi Street on-ramp
- ◆ Bingham Street off-ramp
- ◆ University Avenue on- and off-ramps
- ◆ Kapiolani Boulevard on-ramp

Westbound Ramps to be resurfaced:

- ◆ Lunalilo Street on- and off-ramps
- ◆ Punahou Street on-ramp
- ◆ Alexander Street on-ramp
- ◆ Wilder Avenue off-ramp
- ◆ University Avenue on- and off-ramps
- ◆ Old Waialae Road on-ramp
- ◆ Kapiolani Boulevard off-ramp

Frontage Roads:

- ◆ Bingham Street from Punahou Street to east of Isenberg Street
- ◆ Lunalilo Street from Ernest Street, including Pensacola and Piikoi Streets beneath the Piikoi viaduct
- ◆ Metcalf Street from Alexander Street to Dole Street

- ◆ Wilder Avenue from Wilder Avenue off-ramp to University Avenue on-ramp

Cross Streets:

- ◆ Ward Avenue from Kinau Street to Lunalilo Street
- ◆ Keeaumoku Street from Kinau Street to Kaihee Street
- ◆ McCully Street from Beretania Street to Dole Street

Work will include cold planing, upgrading of bridge railings and guardrails; the reconstruction of weakened pavement, curbs, gutters, curb ramps, sidewalks and drainage structures; and modifications to highway lighting, the traffic signal system and Punahou Pump Station. In addition, highway signs and reflectors will be replaced, repairs will be made to bridge decks and chain link fences and water lines will be upgraded.

PUNAHOU OFF-RAMP WIDENING

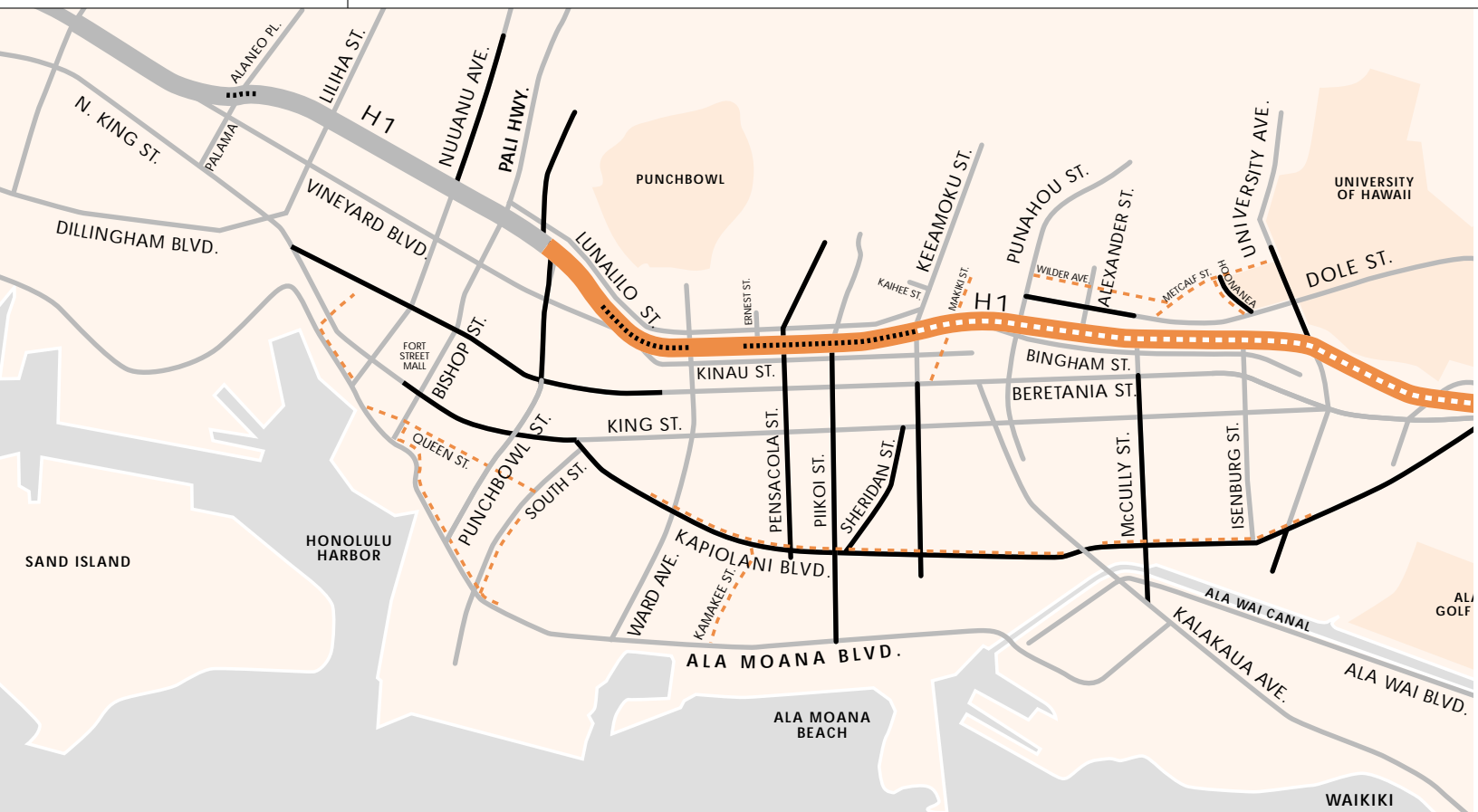
Estimated Start: Bidding in March; estimated start Summer 2000.

Estimated Completion: To be determined

The Punahou Street off-ramp on the H-1 corridor will be widened from one lane to two lanes, and include an additional right-turn lane onto Punahou Street. The off-ramp will be repaved with concrete. Work will include the upgrading of signs, utilities, underdrains, lighting, curb ramps, signals, pavement markings, and guardrails. Pavement reconstruction will require a 24-hour ramp lane closure of one lane for approximately three months.

H-1 LIGHTING UPGRADE

Estimated Start: Ongoing



Estimated Completion: Summer 2000
From Keeaumoku Street Overpass to Ainakoa Avenue, new aluminum poles and high-pressure sodium lights will replace the present lighting systems.

KALANIANA'OLE HIGHWAY RESURFACING

Estimated Start: Summer 2000
Estimated Completion: To be determined
Resurfacing will be performed on Kalaniana'ole Highway from Ainakoa Avenue to West Hind Drive. Prior to resurfacing, two new water mains will be installed: an 8-inch water main from Ainakoa Avenue to Laukahi Street, and a 16-inch water main from Laukahi Street to West Hind Drive; and a possible new gas line from Ainakoa Avenue to West Hind Drive. Work will include cold planing, reconstruction of weakened pavement and sidewalk areas, construction of bike lanes and curb ramps, improvements to guardrails and drainage, new signs and pavement markings. Presently, the state is evaluating bids for resurfacing and the 8-inch water main, and awaiting the Board of Water Supply and Gasco design on the 16-inch water main and gas line.

BIKE LANE IMPROVEMENTS

Estimated Start: In design; estimated start December 2000
Estimated Completion: Fall 2001

Shoulder improvements are scheduled for bicycle lanes along Waiālae Avenue, from Kealaolu Avenue to Kalaniana'ole Highway and 17th Avenue to 21st Avenue. Work will include resurfacing, cold planing, improvements to bike lanes, shoulders and drainage, upgrading of railings at the pedestrian overpass, new curb ramps and pavement markings, the installation of traffic signals and modifications to lane patterns in eastbound and westbound directions. Field study in progress.

KAIMUKI AREA RAMP RESURFACING

Estimated Start: Ongoing
Estimated Completion: Spring 2000
Six ramps in the Kaimuki area are being resurfaced. The actual resurfacing on the ramps has been completed. Guardrails, striping and other work remains.

SEISMIC RETROFITTING

(Lunalilo-Vineyard and Makiki off-ramps and Palama separation)
Estimated Start: Bidding in March; estimated start Summer 2000.
Estimated Completion: To be determined
Seismic retrofitting will include the construction of cables/pipe restraining units to comply with new earthquake design standards, the addition of

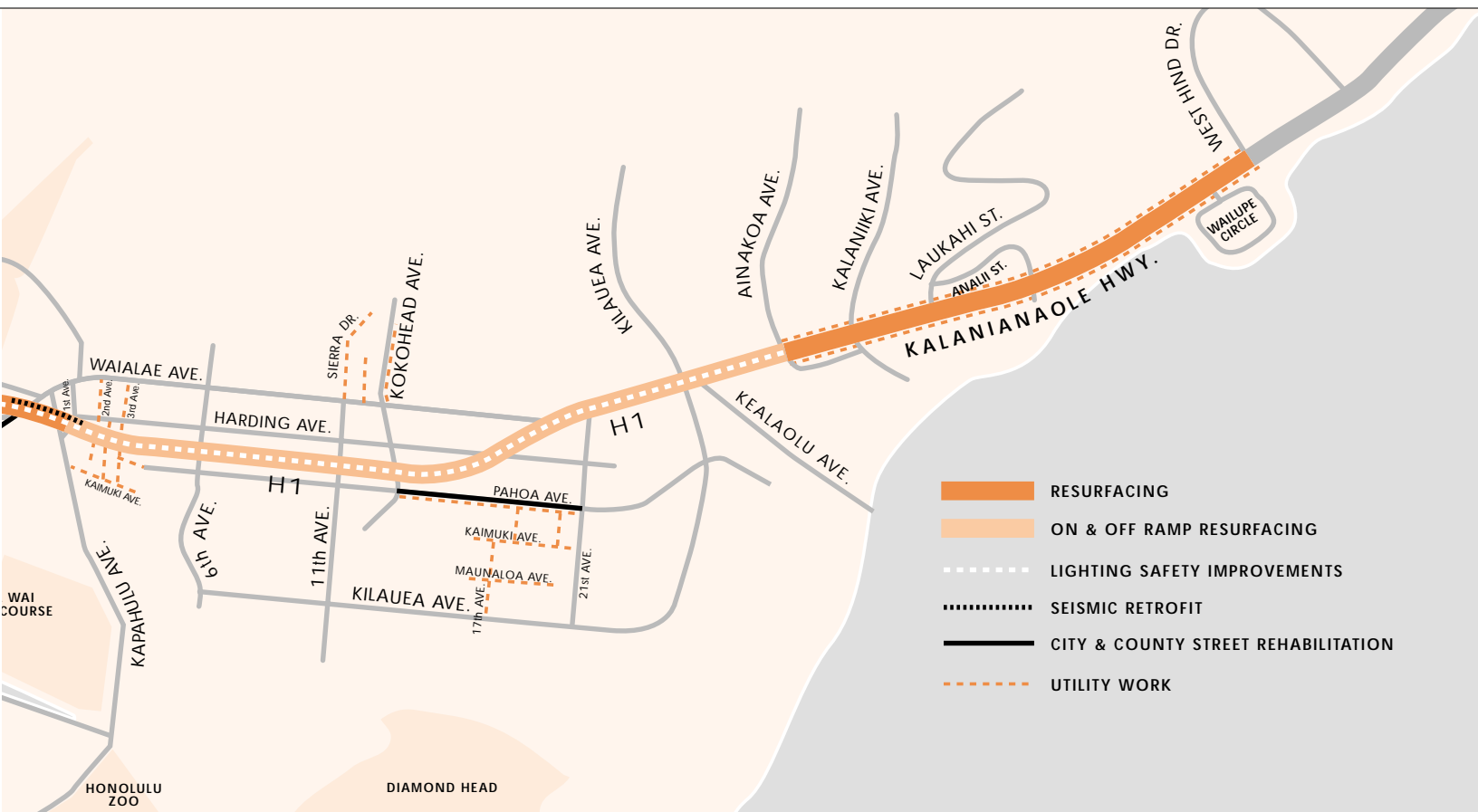
concrete blocking at the abutments and footings, and fiber wrapping of columns to prevent column bursting.

SEISMIC RETROFITTING

(Kapiolani Interchange off-ramp and main grade separation structure)
Estimated Start: In progress.
Estimated Completion: Summer 2000.
The state is currently retrofitting the H-1 bridge superstructure from South King Street to 1st Avenue. Substructure work area on the underside of the bridges that pass over Harding Avenue, Kapiolani Boulevard, and the city yard are also ongoing. Lanes will be closed on Harding Avenue to facilitate concrete pouring and construction over the roadway. Work on H-1 near the King Street on-ramp has been postponed until April 2000 and is being redesigned to minimize impact on H-1 traffic.

WAIALAE AVENUE LANDSCAPING

Estimated Start: Summer 2000
Estimated Completion: Spring 2001
Landscaping near Kahala Mall Shopping Center will include the replacement of an existing fence, installation of permanent irrigation and the addition of plants.



OTHER PROJECTS IMPACTING H-1 CORRIDOR CONSTRUCTION

Other projects that will impact H-1 corridor work in 2000 and 2001 include:

CITY AND COUNTY OF HONOLULU

- ◆ Punchbowl Street Improvements
Vineyard Boulevard to H-1 Overpass (2/00 - 9/00)
Miller Street to Beretania Street (2/00 - 8/00)
Vineyard Boulevard to Miller Street (FY2000)
- ◆ Rehabilitation of University Avenue
H-1 Off-Ramps to Maile Way (FY2000)
- ◆ Rehabilitation of Nuuanu Avenue, Dole Street & McCully Street
Nuuanu Avenue, School Street to Judd Street; Dole Street,
Punahou Street to Metcalf Street; McCully Street, Kalakaua
Avenue to Beretania Street (5/00 - 5/01)
- ◆ Rehabilitation of King Street
Bethel Street to South Street (5/00 - 6/01)
- ◆ Rehabilitation of Kapiolani Boulevard
Increment 1: S. King Street to McCully Street; Increment 2:
McCully Street to Pensacola Street; Increment 3: Pensacola
Street to South Street
- ◆ Rehabilitation of Beretania and Piikoi Streets
Beretania Street, King Street to Alapai Street; Piikoi Street, Ala
Moana Boulevard to Lunalilo Street
- ◆ Rehabilitation of Hoonanea Street
Metcalf Street to Dole Street
- ◆ Rehabilitation of Pahoa Avenue and Lusitana Street
Pahoa Avenue, 22nd Avenue to Koko Head Avenue; Lusitana
Street, School Street to Pauoa Road
- ◆ Traffic Calming Improvements at Various Locations
Kaimuki Avenue/6th Avenue intersection improvements
(complete 4/00)
- ◆ Rehabilitation of Keeaumoku Street
Kapiolani Boulevard to Kinau Street
- ◆ Rehabilitation of Pensacola Street
Nehoa Street to Waimanu Street
- ◆ Rehabilitation of Sheridan Street
King Street to Kapiolani Boulevard
- ◆ Rehabilitation of University Avenue
Kapiolani Boulevard to Hihiiwai Street

SEWER

- ◆ Nimitz Reconstructed Sewer
Ala Moana Boulevard, Keawe Street to Fort Street Mall; Fort
Street Mall, Ala Moana Boulevard to Queen Street; Ala Moana
Boulevard, Keawe Street to South Street; South Street, Ala
Moana Boulevard to Queen Street; Queen Street, South Street to
Nimitz Highway; Nimitz Highway, Queen Street to River Street;

River Street, Nimitz Highway to Hotel Street (construction ongoing)

- ◆ Makiki Street Sewer Rehabilitation
Beretania Street to Wilder Street (FY2001)
- ◆ Kapiolani Boulevard Sewerline
Kapiolani Boulevard, Atkinson Drive to Kamakee Street;
Kamakee Street, Kapiolani Boulevard to Ala Moana Boulevard
(FY2001)

BOARD OF WATER SUPPLY

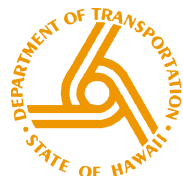
- ◆ Waialae Water System Improvements
Install 8-inch main and appurtenances along Sierra Drive, Center
Street and Koko Head Avenue (FY2000-2001, construction)
- ◆ Kaimuki Water System Improvements
Install 8-inch mains and appurtenances along Maunaloa Avenue
from 16th Avenue to 20th Avenue; Kaimuki Avenue from 16th
Avenue to 21st Avenue; Pahoa Avenue from 18th Avenue to 150
feet beyond fire hydrant M-3591; 17th Avenue from Kilauea
Avenue to Kaimuki Avenue; and 18th Avenue and 20th Avenue
from Kaimuki Avenue to Pahoa Avenue (Design in FY2000-2001)
- ◆ Kapahulu Water System Improvements
Install 8-inch mains and appurtenances along Kaimuki Avenue
from 4th Avenue to Kapahulu Avenue; Lincoln Avenue from 3rd
Avenue to Kapahulu Avenue; Pahoa Street from 4th Avenue to
3rd Avenue; 3rd Avenue from Kaimuki Avenue to H-1 and from
H-1 to Waialae Avenue; Belser Street from Kaimuki Avenue to
H-1 and from H-1 to Harding Avenue; and 2nd Avenue from
Lincoln Avenue to fire hydrant M-1349 and from H-1 to Waialae
Avenue; Aloalo Place from Harding Avenue to end (Design in
FY2000-2001)
- ◆ Punahou Water System Improvements
Install a 12-inch main along Wilder Avenue from Punahou Street
to Metcalf Street; and 8-inch mains and appurtenances along
Metcalf Street from Dole Street to University Avenue; and
Hoonanea Street from Metcalf Street to Dole Street (Design in
FY2000-2001)

HAWAIIAN ELECTRIC COMPANY, INC.

- ◆ Archer-Kewalo 138 KV Underground Transmission Line
Construction schedule: Present to 12/02 (roadway portion -
present to 2/00) Affected Areas: Kapiolani Boulevard from
Chapin Lane to Kamakee Street with portions of Ward Avenue,
Kamakee Street and Waimanu Street
- ◆ Kewalo-Kamoku 138 KV Underground Transmission Line
Construction schedule: 2/00 to 12/02 (roadway portion - 2/00 to
1/01) Affected Areas: Kapiolani Boulevard from Hauoli Street to
Date Street

GAS COMPANY

- ◆ Replace main gas line from Ainakoa Avenue to West Hind Drive



For more information contact the Department of Transportation Public Affairs office at 587-2160 or visit the DOT website at: www.hawaii.gov/dot